

=> fil reg

FILE 'REGISTRY' ENTERED AT 15:14:55 ON 23 DEC 2005

=> d his

FILE 'HCAPLUS' ENTERED AT 14:29:59 ON 23 DEC 2005

L1 1 S US20050164891/PN  
SEL RN

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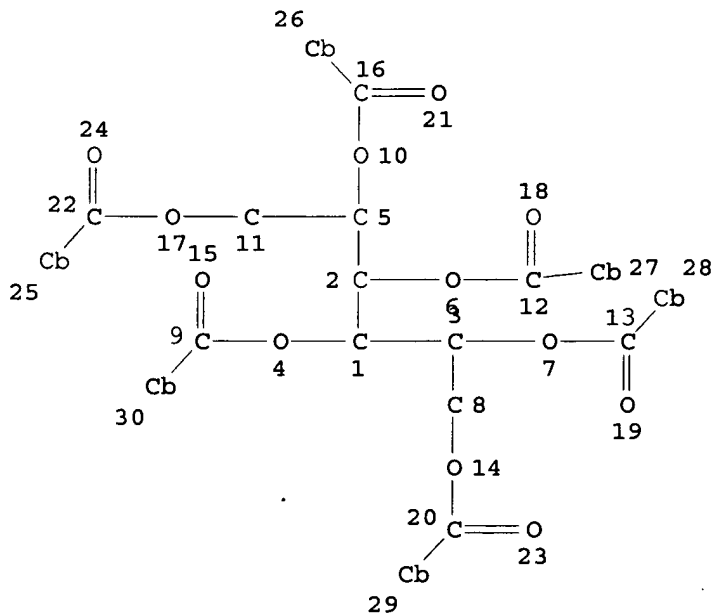
L2 9 S E1-E9  
L3 1 S L2 AND HEXABEN?  
L4 STR 860473-65-0  
L5 7 S L4  
L6 64 S L4 FUL  
L7 3 S L6 AND L2  
SAV L6 CHA667/A

FILE 'HCAPLUS' ENTERED AT 14:49:39 ON 23 DEC 2005

L8 48 S L6  
L9 1 S L8 AND SAG?  
L10 1 S L8 AND FOSSIL?/SC,SX  
L11 2 S L8 AND (WELL? OR DRILL? OR EMULS? OR FUEL?)  
L12 3 S L8 AND COMPOSITION?  
L13 4 S L9-L12  
L14 44 S L8 NOT L13

=> d que 113

L4 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 30

STEREO ATTRIBUTES: NONE

L6 64 SEA FILE=REGISTRY SSS FUL L4  
 L8 48 SEA FILE=HCAPLUS ABB=ON PLU=ON L6  
 L9 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L8 AND SAG?  
 L10 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L8 AND FOSSIL?/SC,SX  
 L11 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L8 AND (WELL? OR  
 DRILL? OR EMULS? OR FUEL?)  
 L12 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L8 AND COMPOSITION?  
 L13 4 SEA FILE=HCAPLUS ABB=ON PLU=ON (L9 OR L10 OR L11 OR  
 L12)

=> fil hcap

FILE 'HCAPLUS' ENTERED AT 15:15:11 ON 23 DEC 2005

=> d l13 1-4 ibib abs hitstr hitind

L13 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:672845 HCAPLUS

DOCUMENT NUMBER: 143:156047

TITLE: Methods of reducing sag in  
 non-aqueous drilling fluids using  
 cystol ester for wells

INVENTOR(S): Falana, Olusegun M.; Patel, Bharat B.;  
 Stewart, Wayne S.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 10 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005164891	A1	20050728	US 2004-764667	2004 0126
WO 2005073336	A1	20050811	WO 2005-US225	2005 0105

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,  
 CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG,  
 ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,  
 KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
 MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL,  
 PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,  
 TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
 ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH,  
 CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT,  
 LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF,  
 CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

US 2004-764667

A

2004  
0126

AB Methods of reducing **sag** include combining a cystol ester compound with a nonaq. fluid and particles to reduce **sag** in the resulting fluid **composition** without significantly increasing the viscosity of the fluid **composition**. The fluid **composition** comprises the nonaq. fluid, the particles, and the cystol ester compound. Suitable cystol ester compds. include cystol ester and derivs. of cystol ester having mono-, di-, or tri-substituted aromatic compds. as substituents. The nonaq. fluid may comprise an invert **emulsion**, diesel oil, mineral oil, an olefin, an organic ester, a synthetic fluid, or combinations thereof. Further, the fluid **composition** may be used as a **well-bore servicing fluid** such as a **drilling fluid**. The particles may comprise a weighting agent, e.g., barite, galena, hematite, dolomite, calcite, or combinations thereof. The fluid **composition** may also include organophilic clay.

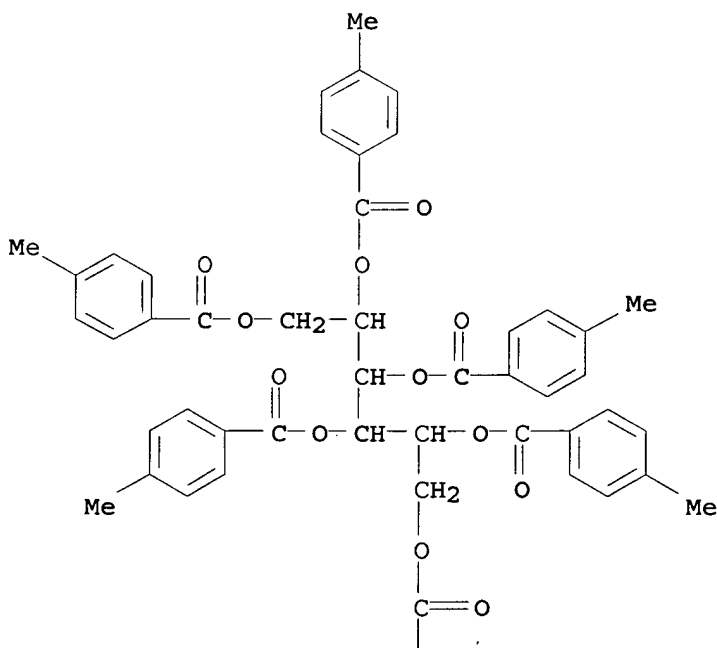
IT 860456-57-1P 860456-58-2P 860473-65-0P

(methods of reducing **sag** in non-aqueous **drilling fluids** using cystol ester for **wells**)

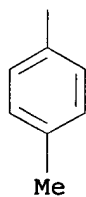
RN 860456-57-1 HCAPLUS

CN Hexitol, hexakis(4-methylbenzoate) (9CI) (CA INDEX NAME)

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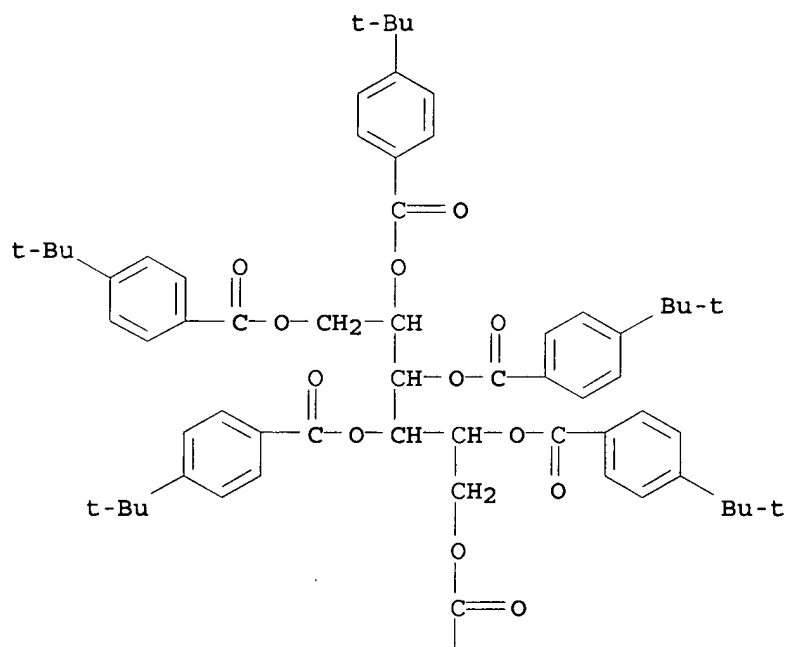


PAGE 2-A

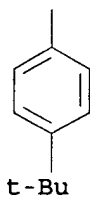


RN 860456-58-2 HCAPLUS  
 CN Hexitol, hexakis[4-(1,1-dimethylethyl)benzoate] (9CI) (CA INDEX NAME)

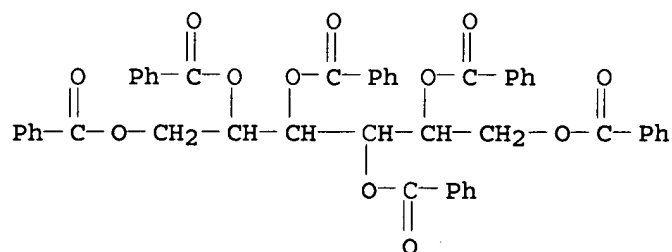
PAGE 1-A



PAGE 2-A



RN 860473-65-0 HCAPLUS  
 CN Hexitol, hexabenzoate (9CI) (CA INDEX NAME)



USHA SHRESTHA EIC 1700 REM 4B28

mesophase formation: thermotropic columnar  
mesophases of tetrahedral and other  
low-aspect-ratio organic materials

AUTHOR(S): Pegenau, Annegret; Hegmann, Torsten;  
Tschierske, Carsten; Diele, Siegmur

CORPORATE SOURCE: Institut fur Organische Chemie der  
Martin-Luther-Universitat Halle-Wittenberg,  
Halle, D-06120, Germany

SOURCE: Chemistry--A European Journal (1999), 5(5),  
1643-1660  
CODEN: CEUJED; ISSN: 0947-6539

PUBLISHER: Wiley-VCH Verlag GmbH

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Several low-aspect-ratio organic mols. [tetrahedral pentaerythritol  
derivs., peracylated polyhydroxy compds. and aminoalcs., a  
tetraphenylmethane derivative, a tetraphenylstannane, and a  
tetrahedral zinc bis(1,3-diketonate) all carrying long aliphatic  
chains] have been synthesized. These compds. were investigated by  
polarizing optical microscopy and differential scanning  
calorimetry, and some of them by X-ray diffraction. Most compds.  
show columnar liquid-crystalline mesophases. Their mesogenic properties  
are neither caused by a specific anisometric shape of these mols.  
nor by a strong amphiphilicity as known from conventional liquid  
crystals. Instead their mesogeneity is mainly driven by micro  
segregation of the incompatible mol. parts (polar central regions  
and lipophilic alkyl chains) into well-organized  
different microdomains. It is shown that, in analogy to block  
copolymers, the mesophase stability rises on enlarging the number of  
repeat units connected with each other and on increasing the  
degree of incompatibility between the incompatible segments.  
During the process of self-organization the average conformation of  
the mols. is changed in such a way that it allows a most efficient  
packing of the mols. Consequently, rigid mols. with a fixed  
tetrahedral geometry are not mesogenic. The mols. described  
herein can be regarded as the most simple star-shaped  
low-aspect-ratio block mols. that form liquid-crystalline phases. They  
bridge the gap between classical amphiphilic mesogens, several  
nonconventional dendritic and oligomeric liquid crystals, and  
mesomorphic block copolymers.

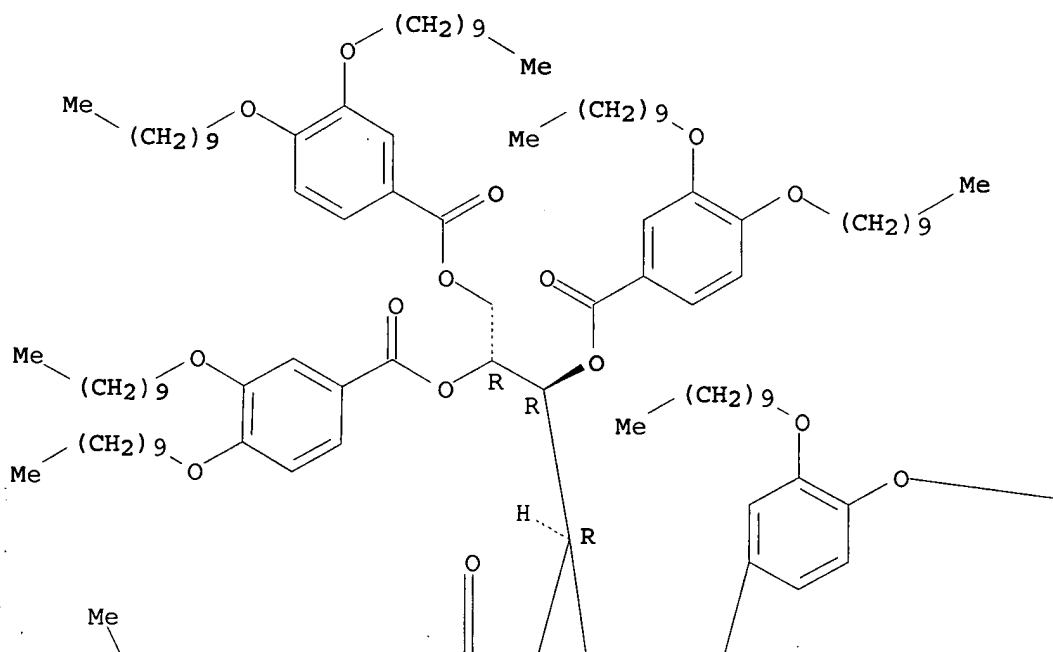
IT 205390-78-9P  
(preparation of starlike low-aspect-ratio organic materials and their  
liquid crystalline phase properties)

RN 205390-78-9 HCAPLUS

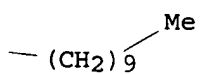
CN D-Mannitol, hexakis[3,4-bis(decyloxy)benzoate] (9CI) (CA INDEX  
NAME)

Absolute stereochemistry.

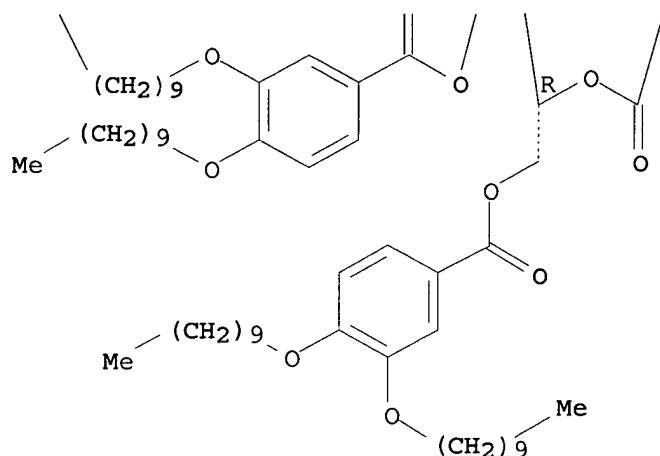
PAGE 1-A



PAGE 1-B



PAGE 2-A



CC 25-17 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 22, 33, 75

IT 185433-76-5P 185433-77-6P 185433-78-7P 185433-79-8P  
 185433-80-1P 185433-81-2P 185433-82-3P 185433-83-4P  
 185433-84-5P 185433-85-6P 185433-86-7P 205390-70-1P  
 205390-72-3P 205390-73-4P 205390-74-5P 205390-75-6P  
 205390-76-7P 205390-77-8P 205390-78-9P 233661-08-0P  
 233661-09-1P 233661-10-4P 233661-11-5P 233661-12-6P  
 233661-13-7P 233661-14-8P 233661-15-9P 233661-16-0P  
 233661-17-1P 233661-18-2P 233661-19-3P 233661-20-6P  
 233661-21-7P 233661-22-8P 233661-23-9P 233661-24-0P  
 233770-55-3P

(preparation of starlike low-aspect-ratio organic materials and their liquid crystalline phase properties)

REFERENCE COUNT: 80 THERE ARE 80 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1987:214947 HCAPLUS

DOCUMENT NUMBER: 106:214947

TITLE: Benzoate-stabilized rigid poly(vinyl chloride) compositions

INVENTOR(S): Reid, William J.; Zappia, Jean M.; Capocci, Gerald A.; Spivack, John D.

PATENT ASSIGNEE(S): Ciba-Geigy Corp., USA

SOURCE: U.S., 4 pp. Cont.-in-part of U.S. 4,555,541.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

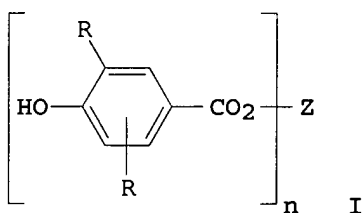
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4619957	A	19861028	US 1985-764282	1985 0809



US 4555541	A	19851126	US 1984-579232	1984 0213
CA 1257440	A1	19890711	CA 1985-473998	1985 0211
JP 60210654	A2	19851023	JP 1985-26120	1985 0213
JP 06004742	B4	19940119		
PRIORITY APPLN. INFO.:			US 1984-579232	A2 1984 0213

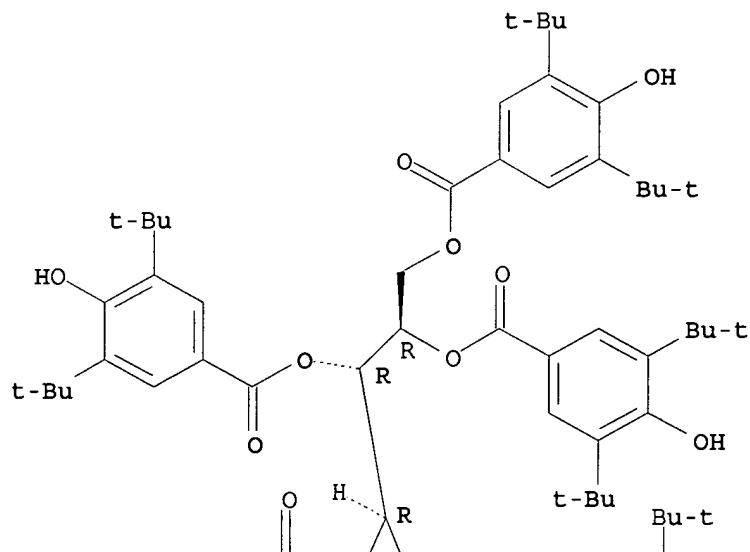
GI



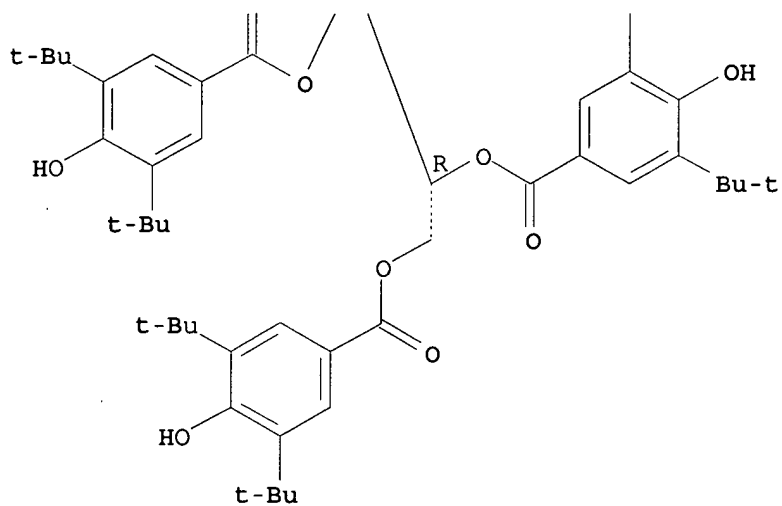
- AB Rigid PVC containing the esters I (R = alkyl; Z = alkanetrihexayl; n = 3-6) have good UV resistance and impact strength at low concns. (2-8%) of TiO<sub>2</sub>. Adding 57.3 g 90% 3,5-di-tert-butyl-4-hydroxybenzoyl chloride over 20 min to D,L-mannitol in 400 mL pyridine stirred at 20° and stirring 20 h at 65-70° gave a hexaester (II). Compounded, rigid PVC containing 1 phr II and 5 phr TiO<sub>2</sub> had yellowness index 5.9 and 4.3 after 0 and 600 h, resp., at Weatherometer exposure (55-60°, 70-75% relative humidity); vs. 7.4 and 8.1, resp., without II.
- IT 108352-81-4 108375-88-8  
(light stabilizers, for rigid PVC)
- RN 108352-81-4 HCAPLUS
- CN Mannitol, hexakis[3,5-bis(1,1-dimethylethyl)-4-hydroxybenzoate]  
(9CI) (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A

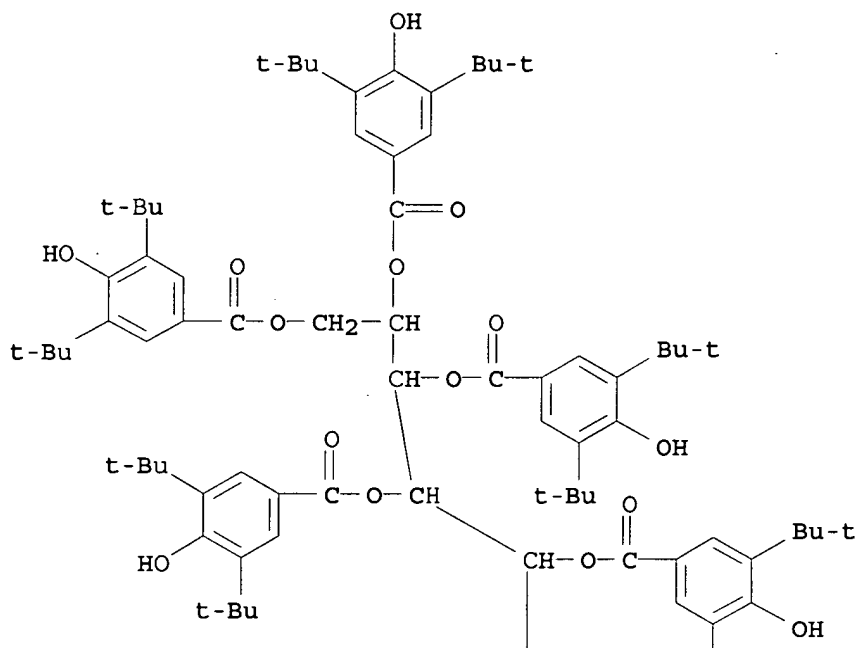


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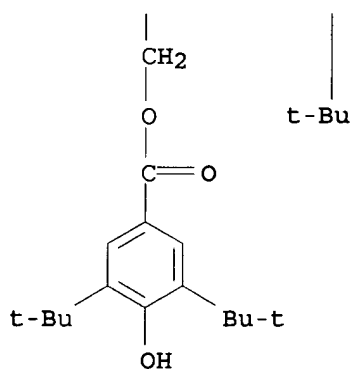


RN 108375-88-8 HCAPLUS  
 CN D-Glucitol, hexakis[3,5-bis(1,1-dimethylethyl)-4-hydroxybenzoate]  
 (9CI) (CA INDEX NAME)

PAGE 1-A



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IC ICM C08K005-58  
 INCL 524091000  
 CC 37-6 (Plastics Manufacture and Processing)  
 Section cross-reference(s): 25  
 IT 4376-79-8 56497-27-9 106712-55-4 108352-81-4  
 108375-88-8  
 (light stabilizers, for rigid PVC)

L13 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1986:165395 HCAPLUS  
 DOCUMENT NUMBER: 104:165395  
 TITLE: Further constituents of Adenia cissampeloides  
 AUTHOR(S): Morah, Francis N. I.

CORPORATE SOURCE: Dep. Chem., Coll. Educ., Nsugbe, Onitsha,  
Nigeria

SOURCE: Journal of the Indian Chemical Society (1985),  
62(9), 712-13  
CODEN: JICSAH; ISSN: 0019-4522

DOCUMENT TYPE: Journal

LANGUAGE: English

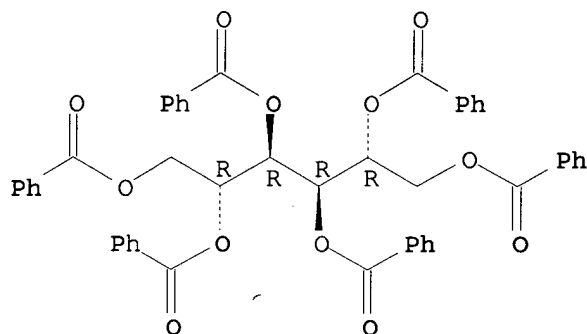
AB Stems of *A. cissampeloides* were defatted with light petroleum and  
extracted with a MeOH-acetone mixture (1:1), followed by partitioning  
between ether and H<sub>2</sub>O. The polar fraction was chromatographed  
over deactivated silica to yield sucrose and NaCl. An EtOH extract  
of the stems yielded D-mannitol by crystallization. Compds. were  
identified by physicochem. characterization.

IT 7462-41-1P  
(preparation of)

RN 7462-41-1 HCAPLUS

CN D-Mannitol, hexabenzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



CC 11-1 (Plant Biochemistry)

ST *Adenia* compn sucrose sodium chloride mannitol

IT *Adenia cissampeloides*  
(composition of)

IT 3969-59-3P 7462-41-1P  
(preparation of)

=> d 114 1-44 ti

L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN

TI Polymers of pharmacological interest. Nonaqueous titrimetry

L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN

TI Preparation of inclusion compounds or molecular complexes of  
pesticides with sugar esters

L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN

TI Enteric coating. VI. Saccharide and polyhydric alcohol hydrogen  
phthalates

L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN

TI Crystalline D-glycero-L-gluco-octulose, crystalline methyl  
D-glycero- $\alpha$ -L-gluco-octulopyranoside, and some related  
compounds

- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Esters of polyols and polycarboxylic acids and their preparation and use with metal salts for tanning
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Enteric coatings from monosaccharides, disaccharides, and polyhydric alcohol
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Polyol-poly(diallyltrimellitates)
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Amine-induced deacylation of carbohydrate derivatives under anhydrous conditions
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Aspects of stereochemistry. VII. Structure of some cyclic acetals of D-glycero-D-gluco-heptitol ( $\beta$ -sedoheptitol)
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Some properties of 4-nitrobenzoates of saccharides and glycosides; application to high-pressure liquid chromatography
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Liquid crystalline tetrahedra and low-aspect ratio organic materials
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Some new esters of sorbitol
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Chemical examination of the roots of *Gardenia turgida* Roxb
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI N-Methylimidazole as a catalyst in hydroxy compounds esterification
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Constituents of local plants. V. The constituents of various parts of the pomegranate plant
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Mass spectrometry of some ultraviolet absorbing derivatives of sugars and related alditols: identification in biologic fluids after separation by high performance liquid chromatography
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Preparation of gallic acid esters and their use as ADP-ribosyltransferase inhibitors for treatment of intestinal infection by endotoxin-producing bacteria
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Polyhydric alcohol esters of acetylsalicylic acid
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Proton NMR studies of D-mannitol derivatives
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Solutions for storage of ink-jet printing heads

- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI The Wohl reaction applied to some benzoylated aldononitriles
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Proton NMR spectra and conformation of some benzoyl alditols
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Efficient Synthesis of Enantiopure Conduritols by Ring-Closing Metathesis
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Aromatic carboxylate derivatives
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Carbon-13 NMR spectra of some acyclic perbenzoylated carbohydrate derivatives
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Identification in traditional herbal medications and confirmation by synthesis of factors that inhibit cholera toxin-induced fluid accumulation
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Synthesis of O-acylaldonamides
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Conformation of some benzoylated aldononitriles and 5-(polybenzoyloxyalkyl)tetrazoles as determined by their proton NMR spectra
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Use of DSC To Detect the Heterogeneity of Hydrothermal Stability in the Polyphenol-Treated Collagen Matrix
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI L-Gulonic acid derivatives. II. Benzoyl migration in derivatives of D-glucitol
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Isopropylidenation of maltitol and a new synthetic approach for disaccharides having an  $\alpha$ -glycosidic linkage
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Structure-activity relationships in the hydrophobic interactions of polyphenols with cellulose and collagen
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Synthesis and properties of aliphatic polyesters of 2-hydroxy- and 2-acetoxybenzoic acids
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Structure of galactitol hexa(p-chlorobenzoate)
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Synthesis and spectroscopic characterization of the polygalloyl esters of polyols-models for gallotannins
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Synthesis and properties of 2-hydroxy- and 2-acetoxy-5-iodobenzoic

acid polyesters of short-chain aliphatic polyalcohols

- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Application of the exciton chirality method to acyclic systems:  
circular dichroism of acyclic sugar poly-p-chlorobenzoates
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Exciton Cotton Effects of Benzoates in the 1B Transition Region.  
Demonstration and Applications
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Determination of bond types of polysaccharides
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Mass spectra of some per-O-benzoylalditols and -aldobiitols
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Chemical constitution and the tanning effect. I. Simple esters and  
polyesters of gallic acid
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Nonaqueous titrimetry study of polymers of pharmacological  
interest
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Unusual solid-state conformation of D-glucitol  
hexa(p-chlorobenzoate)
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Trifluoroacetic acid. I. Trifluoroacetic anhydride as a promotor  
of ester formation between hydroxy compounds and carboxylic acids